



Installing the C100/C110 to C160/C180 CPU Upgrade



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Upgrading your Model C100/110 to a Model C160 or C180

Upgrading your Model C100/110 to a Model C160 or C180

Your upgrade kit contains a Main Tray Assembly, which, when installed, upgrades your Model C100/110 to a Model C160/C180.

NOTE:

Installing this upgrade in your Model C100 or Model C110 does not affect the regulatory and safety classifications or approvals. The upgraded system meets all of the regulatory and safety standards listed in Appendix A of your original Model C100/110 Owner's Guide.

The following sections provide step-by-step instructions for removing the C100/110 main tray and power supply and installing the C160/C180 CPU main tray and power supply.

The general steps are outlined as follows. See the individual sections for more detailed instructions.

NOTE:

The following steps must be followed in the order in which they appear. Refer to the individual sections of this guide for the actual step-by-step procedures for upgrading the C100/110 to a C160/180.

- Update your operating system software to HP-UX 10.20.
- Determine the LAN ID of your system.
- Run the **cclass_upgrade** program.
- Power off the workstation and any peripherals and unplug the power cords. Disconnect any peripheral cables and remove the floor stand.
- Remove the main tray assembly.
- Remove the memory boards from the CPU board and the option boards from the main tray and reinstall them onto the new main tray.
- Place the main tray assembly into the workstation chassis.
- Connect power cords and cables, restart the workstation, and enter the LAN ID when prompted.

Preparing Your Workstation

Preparing Your Workstation

Before starting the upgrade, use the following procedure to prepare the workstation:

- 1 The workstation must be running HP-UX 10.20 or later to accommodate the C160/C180 upgrade. If the workstation is running a version of HP-UX lower than 10.2, update the operating system software before continuing.
- 2 Determine the workstations LAN ID with the **lanscan** command by entering the following command:

/usr/sbin/lanscan

The output is similar to the following:

Hardware Path	Station Address	Dev lu	Hardware State	Net-Interface Name	Unit	Net-Interface State	NM ID	Encapsulation Methods	Mjr Num
2.0.2	0x08000970ECC0	0	UP	lan0		UP	4	ETHER	52

After you install the new CPU board or I/O board and power on the system for the first time, you are prompted for the LAN ID. Record the information here so you have a record of it:

EtherLAN ID _____ - _____

You must supply the dash (-) between the first six digits and the last six digits.

- 3 Logout of your system and enter a no windows command line session as follows:

HP VUE: At the login window, select **Options**, then select **No Windows**.

HP CDE: At the login window, select **Option**, then select **Command Line Login**.

Preparing Your Workstation

- 4 Next, you need to run the upgrade utility program to automatically convert the hardware paths stored in the system's I/O configuration file. You should only run this utility if you are going to complete the rest of the hardware upgrade described in this document.

Enter the following command to run the upgrade utility program:

```
/usr/sam/lbin/cclass_upgrade
```

The upgrade utility prompts you to confirm that you want to continue, as follows:

```
Are you ready to perform the upgrade (y/n [n] ) ?
```

Enter **Y**.

The upgrade utility proceeds to modify the I/O configuration information that is stored in the files **/etc/ioconfig** and **/stand/ioconfig** to be compatible with the upgraded system. The original I/O configuration information is saved in the backup file **/etc/ioconfig.pre_upgrade**.

If the utility detects an A4077A Color Graphics Card or an A4078A Dual Color Graphics Card in the system, it will inform you to remove them when you perform the hardware portion of this upgrade. Systems with built-in Enhanced Graphics adapters do not support these optional graphics adapters.

If you have a Visualize48Z (A4444A) graphics adapter installed, the utility may ask you to identify which slot the card set is installed in. Respond with the highest numbered option slot that the graphics adapter card set resides in.

NOTICE:

The **cclass_upgrade** utility modifies the hardware configuration so that it is incompatible with a C100 or C110 system. After running the utility, you must continue with this upgrade or restore the configuration information from **/etc/ioconfig.pre_upgrade** to **/etc/ioconfig** and **/stand/ioconfig**.

Preparing Your Workstation

- 5 If your system has an A4070B HCRX-8Z or an A4071B with the A4272A accelerator graphics adapter installed enter the following commands to save the current versions of the **/etc/ioconfig** and **/stand/ioconfig** files:

```
mv /etc/ioconfig /etc/ioconfig.old
```

```
mv /stand/ioconfig /stand/ioconfig.old
```

- 6 Power off your workstation by pressing the power button on the front panel.
When you press the power button, the workstation automatically shuts down the operating system before it powers off the system.
- 7 When the workstation has completed shutting down and powering off, power off the monitor, and any peripheral devices connected to the workstation.

If your system has supported graphics adapters installed, continue with step 8. Otherwise skip to step 12.

- 8 If a message to press **Esc** to stop the boot process is displayed, then press **Esc**.
This stops the boot process and brings you to the Boot Console Handler prompt.
- 9 At the prompt, enter the following command to enter the information menu:

```
in
```

- 10 Enter the following command to display the console setting:

```
co
```

The graphics path for the default console device is displayed. Make note of this information below for later use.

Console Path: _____

- 11 Power down the system.



Preparing Your Workstation

12 Unplug the power cord of the system unit, the monitor, and any peripheral devices from ac wall outlets.

13 Unplug the power cord from the back of the system unit.

WARNING:

To avoid electrical shock, make sure you unplug the power cable from the wall outlet and the system unit before proceeding any further.

CAUTION:

The internal components of your workstation are susceptible to mechanical and electrostatic shock. To prevent such damage from occurring, observe the following precautions during the installation procedure.

- Stand on a static-free mat
 - Wear a static-grounding wrist strap to ensure that any accumulated electrostatic charge discharges from your body to ground. Attach the static-grounding wrist strap by following the instructions on the package that contains the strap. Be sure to attach one end of the strap to the system chassis.
-



Preparing Your Workstation

14 Remove the floor stand from the system unit, as shown in Figure 1.

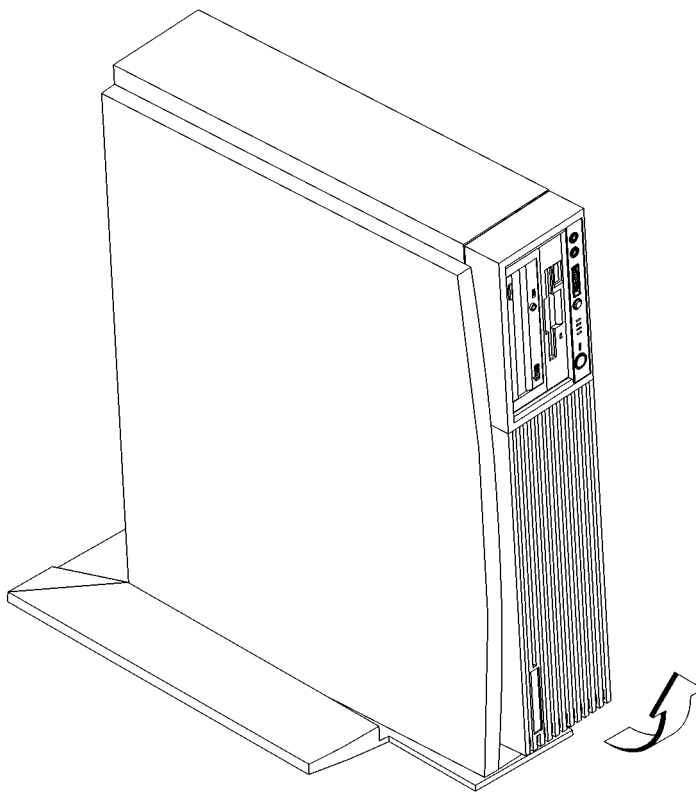


Figure 1

Removing the Floor Stand

15 Lay the system unit on a flat surface, such as a table top.

16 Attach a static-grounding wrist strap to bare metal on the back of the system unit.

Removing the Main Tray Assembly

Removing the Main Tray Assembly

Once you have prepared the workstation, you need to remove the main tray from the system unit, as described in the following procedure:

- 1 Completely loosen the four thumb screws on the rear of the system unit, as shown in Figure 2.

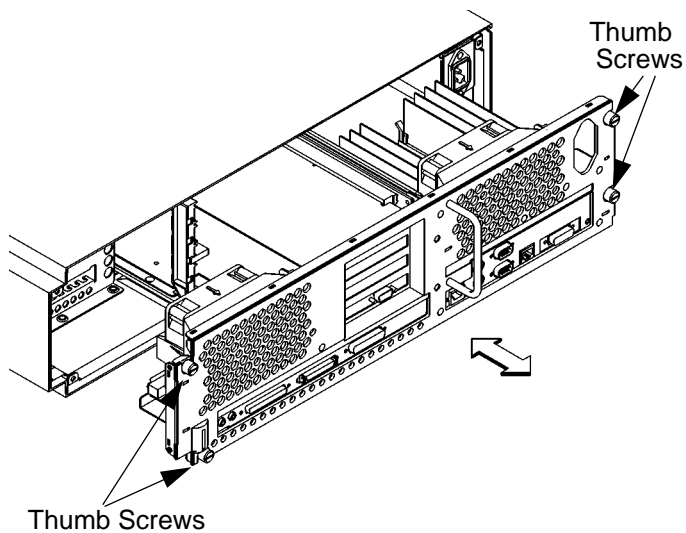


Figure 2

Removing Main Tray Assembly

- 2 Place one hand on the top of the system unit and push, while pulling the handle on the rear panel with your other hand. See Figure 2.
- 3 Slide the main tray assembly out of the chassis.

Removing Memory Modules

Removing Memory Modules

After removing the main tray from the system, you must remove the memory modules from the original C100/110 CPU board, as described in the following procedure:

- 1 Locate the memory modules on the C100/C110 CPU board, as shown in Figure 3.

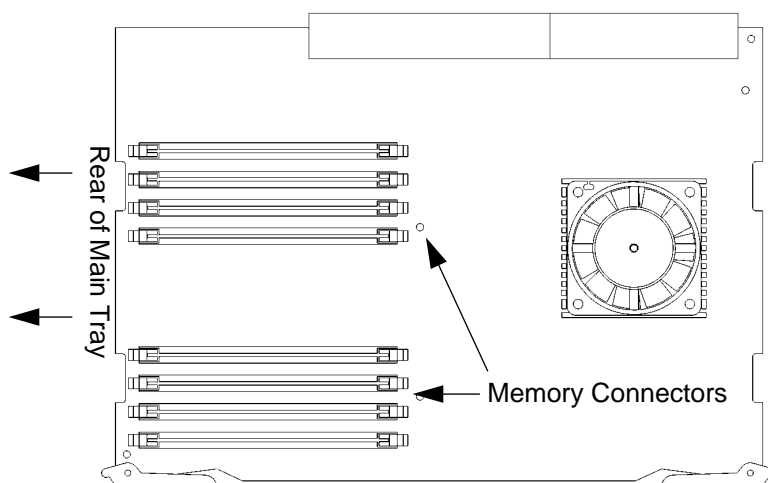


Figure 3 **Memory Module Location**

Removing Memory Modules

- 2 To remove a memory module, push the ejector tabs on each side of the module. Lift the memory module up and out of the connector and place it on a static-free surface. Figure 4 shows how to remove a memory module.

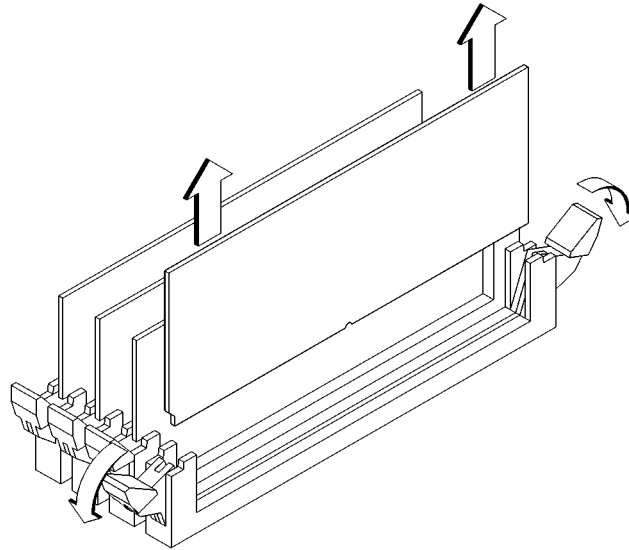


Figure 4 **Removing a Memory Module**

Removing Option Boards

Removing Option Boards

NOTICE:

Any option boards that are supported by the new C160/180 system should be installed in the same slot number in the new main tray.

If your C100/110 system has any option boards installed, you must remove them from the original C100/110 main tray, as described in the following procedure:

- 1 Press the fan release clip and rotate the fan, as shown in Figure 5.

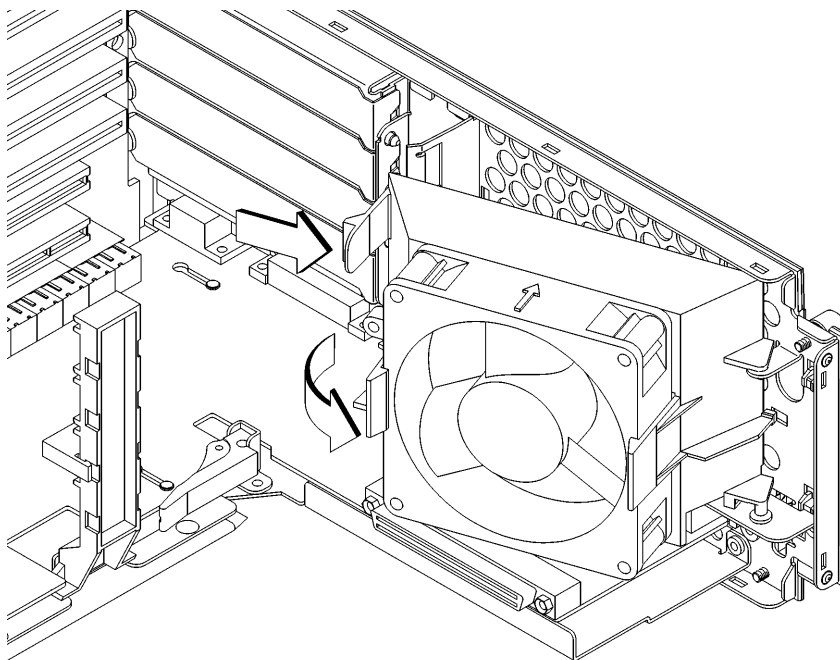


Figure 5

Rotating the Fan

Removing Option Boards

- 2 Slide the EISA slider to the side to remove it, as shown in Figure 6.
- 3 Remove the screw from the EISA retainer, as shown in Figure 6
- 4 Grasp the option board by the edge with both hands and pull it straight out from its slot. Repeat this step for each option board.
- 5 Set the option boards aside to be installed in the C160/C180 main tray.

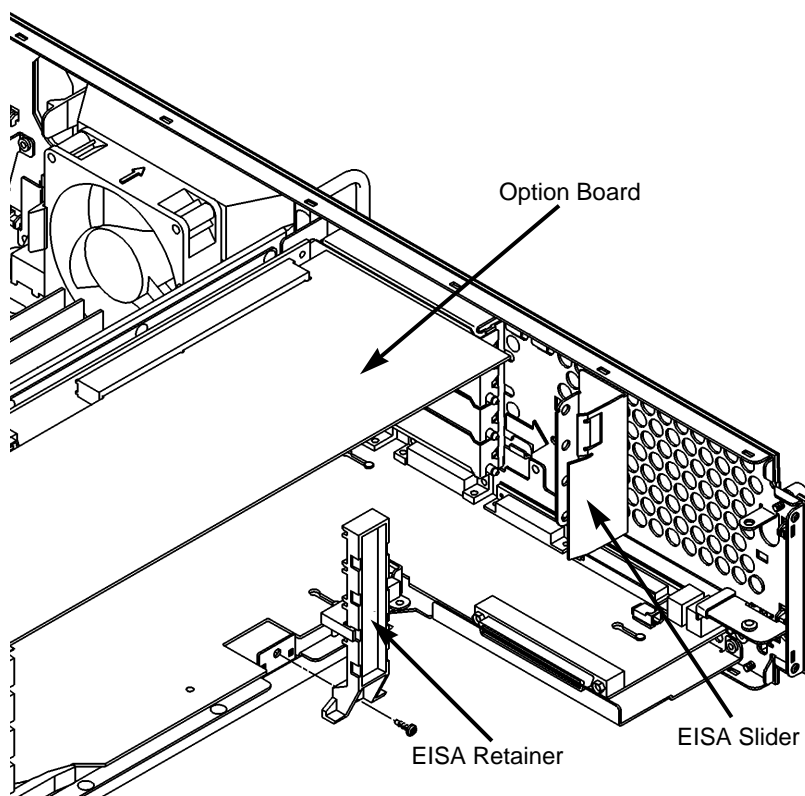


Figure 6

Removing the EISA Slider and Retainer

Installing Memory Modules

Installing Memory Modules

Install the memory modules in the C160/C180 CPU board in the new main tray, as described in the following procedure:

- 1 Locate the memory connectors on the C160/C180 CPU board, as shown in Figure 7.

The C160/C180 CPU has 12 memory slots, labeled 0A, 0B through 5A and 5B. The memory configuration is 32 MB to 768 MB installed in pairs of 16 MB, 32 MB, or 64 MB memory modules.

Memory modules must be installed in pairs of equal capacity.

Always install the largest capacity memory modules in the lowest numbered memory slots and don't skip any numbers.

For example, if you have a pair of 16 MB memory modules and a pair of 64 MB memory modules, first install the pair of 64 MB memory modules in slots 0A and 0B, then install the 16 MB modules in slots 1A and 1B.

Figure 7 shows the positions of the memory connectors and slot numbering on the C160/C180 CPU board.

Table 1 shows the memory configurations for the C160/C180 workstation.

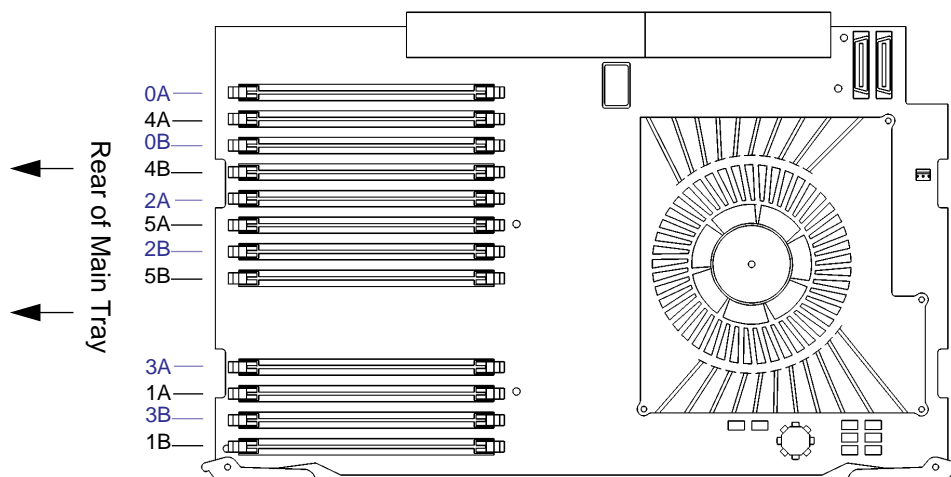


Figure 7

C160/C180 Memory Connectors

Installing Memory Modules

Table 1 Model C160/C180 Allowable Memory Configurations

Config. No.	Pair 0		Pair 1		Pair 2		Pair 3		Pair 4		Pair 5		Total MB
	A	B	A	B	A	B	A	B	A	B	A	B	
1	16	16											32
2	16	16	16	16									64
3	16	16	16	16	16	16							96
4	16	16	16	16	16	16	16	16					128
5	16	16	16	16	16	16	16	16	16	16			160
6	16	16	16	16	16	16	16	16	16	16	16	16	192
7	32	32											64
8	32	32	16	16									96
9	32	32	16	16	16	16							128
10	32	32	16	16	16	16	16	16					160
11	32	32	16	16	16	16	16	16	16	16			192
12	32	32	16	16	16	16	16	16	16	16	16	16	224
13	32	32	32	32									128
14	32	32	32	32	16	16							160
15	32	32	32	32	16	16	16	16					192
16	32	32	32	32	16	16	16	16	16	16			224
17	32	32	32	32	16	16	16	16	16	16	16	16	256
18	32	32	32	32	32	32							192
19	32	32	32	32	32	32	16	16					224
20	32	32	32	32	32	32	16	16	16	16			256
21	32	32	32	32	32	32	16	16	16	16	16	16	288
22	32	32	32	32	32	32	32	32					256
23	32	32	32	32	32	32	32	32	16	16			288
24	32	32	32	32	32	32	32	32	16	16	16	16	320

Installing Memory Modules

Table 1 Model C160/C180 Allowable Memory Configurations

Config. No.	Pair 0		Pair 1		Pair 2		Pair 3		Pair 4		Pair 5		Total MB
	A	B	A	B	A	B	A	B	A	B	A	B	
25	32	32	32	32	32	32	32	32	32	32			320
26	32	32	32	32	32	32	32	32	32	32	16	16	352
27	32	32	32	32	32	32	32	32	32	32	32	32	384
28	64	64											128
29	64	64	16	16									160
30	64	64	16	16	16	16							192
31	64	64	16	16	16	16	16	16					224
32	64	64	16	16	16	16	16	16	16	16			256
33	64	64	16	16	16	16	16	16	16	16	16	16	288
34	64	64	32	32									192
35	64	64	32	32	16	16							224
36	64	64	32	32	16	16	16	16					256
37	64	64	32	32	16	16	16	16	16	16			288
38	64	64	32	32	16	16	16	16	16	16	16	16	320
39	64	64	32	32	32	32							256
40	64	64	32	32	32	32	16	16					288
41	64	64	32	32	32	32	16	16	16	16			320
42	64	64	32	32	32	32	16	16	16	16	16	16	352
43	64	64	32	32	32	32	32	32					320
44	64	64	32	32	32	32	32	32	16	16			352
45	64	64	32	32	32	32	32	32	16	16	16	16	384
46	64	64	32	32	32	32	32	32	32	32			384
47	64	64	32	32	32	32	32	32	32	32	16	16	416
48	64	64	32	32	32	32	32	32	32	32	32	32	448

Installing Memory Modules

Table 1 Model C160/C180 Allowable Memory Configurations

Config. No.	Pair 0		Pair 1		Pair 2		Pair 3		Pair 4		Pair 5		Total MB
	A	B	A	B	A	B	A	B	A	B	A	B	
49	64	64	64	64									256
50	64	64	64	64	16	16							288
51	64	64	64	64	16	16	16	16					320
52	64	64	64	64	16	16	16	16	16	16			352
53	64	64	64	64	16	16	16	16	16	16	16	16	384
54	64	64	64	64	32	32							320
55	64	64	64	64	32	32	16	16					352
56	64	64	64	64	32	32	16	16	16	16			384
57	64	64	64	64	32	32	16	16	16	16	16	16	416
58	64	64	64	64	32	32	32	32					384
59	64	64	64	64	32	32	32	32	16	16			416
60	64	64	64	64	32	32	32	32	16	16	16	16	448
61	64	64	64	64	32	32	32	32	32	32			448
62	64	64	64	64	32	32	32	32	32	32	16	16	480
63	64	64	64	64	32	32	32	32	32	32	32	32	512
64	64	64	64	64	64	64							384
65	64	64	64	64	64	64	16	16					416
66	64	64	64	64	64	64	16	16	16	16			448
67	64	64	64	64	64	64	16	16	16	16	16	16	480
68	64	64	64	64	64	64	32	32					448
69	64	64	64	64	64	64	32	32	16	16			480
70	64	64	64	64	64	64	32	32	16	16	16	16	512
71	64	64	64	64	64	64	32	32	32	32			512
72	64	64	64	64	64	64	32	32	32	32	16	16	544

Installing Memory Modules

Table 1 Model C160/C180 Allowable Memory Configurations

Config. No.	Pair 0		Pair 1		Pair 2		Pair 3		Pair 4		Pair 5		Total MB
	A	B	A	B	A	B	A	B	A	B	A	B	
73	64	64	64	64	64	64	32	32	32	32	32	32	576
74	64	64	64	64	64	64	64	64					512
75	64	64	64	64	64	64	64	64	16	16			544
76	64	64	64	64	64	64	64	64	16	16	16	16	576
77	64	64	64	64	64	64	64	64	32	32			576
78	64	64	64	64	64	64	64	64	32	32	16	16	608
79	64	64	64	64	64	64	64	64	32	32	32	32	640
80	64	64	64	64	64	64	64	64	64	64			640
81	64	64	64	64	64	64	64	64	64	64	16	16	672
82	64	64	64	64	64	64	64	64	64	64	32	32	704
83	64	64	64	64	64	64	64	64	64	64	64	64	768

Installing Memory Modules

- 2 To install a memory module, close the ejector tabs on each side of the memory connector and line the memory module up with the guides, as shown in Figure 8. Make sure that the notched end of the memory module is toward the white ejector tab, or to the rear of the main tray, as shown in Figure 8.

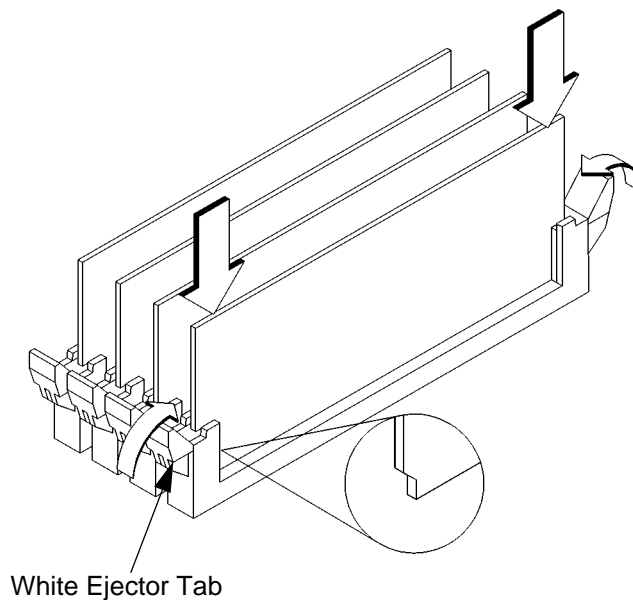


Figure 8 **Installing a Memory Module**

- 3 Press firmly and evenly on the memory module to ensure that it is fully seated.

Installing Option Boards

Installing Option Boards

NOTICE:

Any option boards that are supported by the new C160/180 system should be installed in the same slot number in the new main tray that they were installed in the old main tray.

If you are installing a graphics adapter, read and understand the information in the next section titled “Graphics Adapter Considerations”, before continuing. Otherwise skip to the subsection titled “Option Board Installation”.

Graphics Adapter Considerations

If you are installing a graphics option, read the information in this section first.

Graphics Paths

graphics(0) is the built-in 8-plane graphics adapter.

graphics(1) through *graphics(4)* are graphics adapters installed in option slots 1 through 4.

When a dual display graphics adapter (an adapter which has two video output connectors) is installed, the video connector on the left (when looking at the system from the rear) is *graphics(NA)*, and the video connector on the right is *graphics(NB)*, where *N* is the slot number in which the graphics adapter is installed.

For example, a Dual Visualize Enhanced Graphics Card (A4451A) installed in option slot 3 would be *graphics3A* and *graphics3B*.

Installing Option Boards

Graphics Configuration Restrictions

The system supports only four graphics displays at a time. A “display” is a video output port or connector. For example, the Dual Visualize Enhanced Graphics Card (A4451A) is a dual display card. It has two external video connectors so it accounts for two of the maximum of four displays. If you installed two of these cards, they would account for the maximum of four displays supported by the system.

The built-in graphics adapter accounts for one graphics display (*graphics0*). If four displays are installed in the option slots, the built-in graphics adapter is automatically disabled.

You may not install a dual display graphics adapter in option slot 1 and option slot 3 at the same time. If you do, the graphics adapter in slot 1 will be disabled.

You may not install a dual display graphics adapter in option slot 2 and option slot 4 at the same time. If you do, the graphics adapter in slot 2 will be disabled.

When a Visualize48Z (A4244A) two board graphics adapter is installed, Only one other graphics adapter may be installed in the option slots. If the highest numbered slot used by the Visualize 48Z board set is an even numbered slot, then you may only install a graphics card in the remaining odd numbered slot. If the highest numbered slot used by the Visualize 48Z board set is an odd numbered slot, then you may only install a graphics card in the remaining even numbered slot. For example, with the Visualize 48Z board set installed in slots 1 and 2, slot two is the highest numbered slot used and it is an even numbered slot. Therefore you may only install an additional graphics adapter in slot 3, which is the remaining odd numbered slot.

NOTICE:

The A4077A Color Graphics Card, A4078A Dual Color Graphics Card, A4079B HCRX-8Z graphics adapter and the A4071B HCRX-24 graphics adapter with the A4072A Z Accelerator attached are not supported in the Model C160/C180.

Installing Option Boards

Option Board Installation

If you removed option boards from the C100/110 main tray, use this procedure to install them in the new C160/C180 main tray. Otherwise, skip to the next section.

- 1 Press the fan release clip and rotate the fan, as shown in Figure 9.

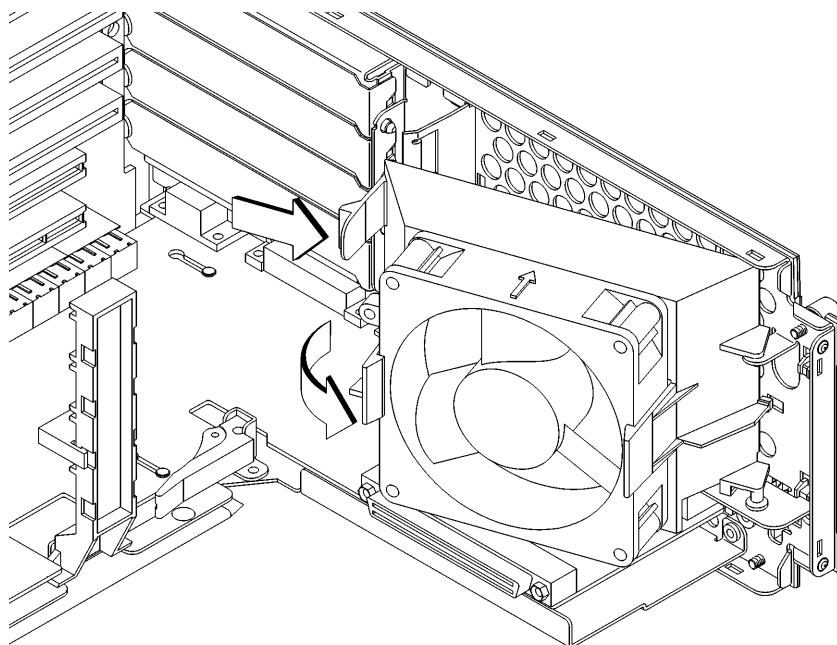


Figure 9

Rotating the Fan

Installing Option Boards

- 2 Remove the screw from the EISA retainer, and remove the EISA retainer, as shown in Figure 10.

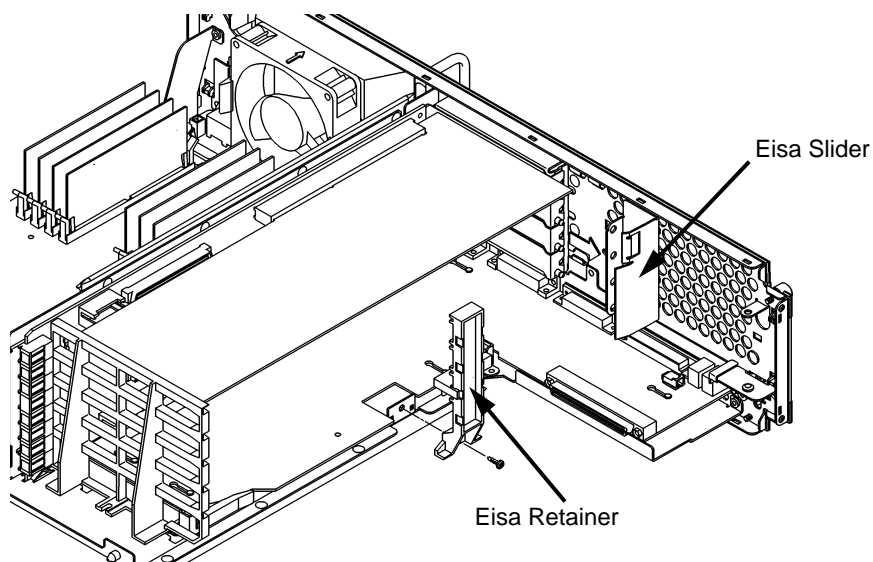


Figure 10

Removing the EISA Retainer and EISA Slider

- 3 Remove the EISA slider, as shown in Figure 10.

Installing Option Boards

- 4 In the desired option slot, turn the blank plate's locking knob counter-clockwise to unlock the plate, as shown in Figure 11.

NOTE:

The new main tray assembly contains a blank plate which is held in by a locking knob. Be sure to remove these components before attempting to install the option boards.

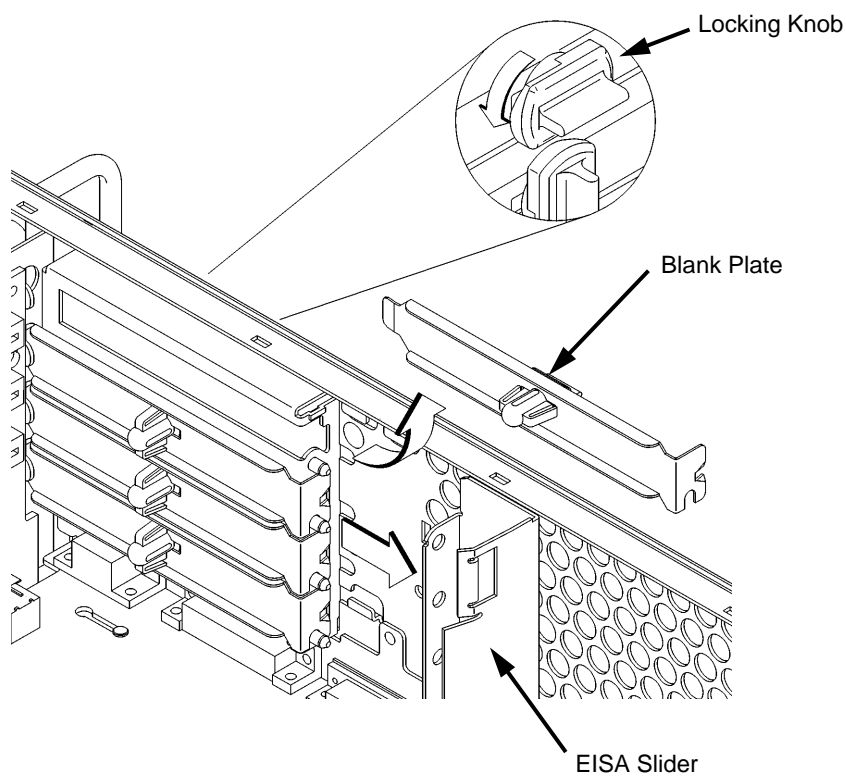


Figure 11

Removing a Blank Plate

- 5 Remove the blank plate from the slot, as shown in Figure 11.

Installing Option Boards

- 6 Slide the option board into the slot. Make sure that the hole in the board's handle aligns with the pin on the back panel, as shown in Figure 12.

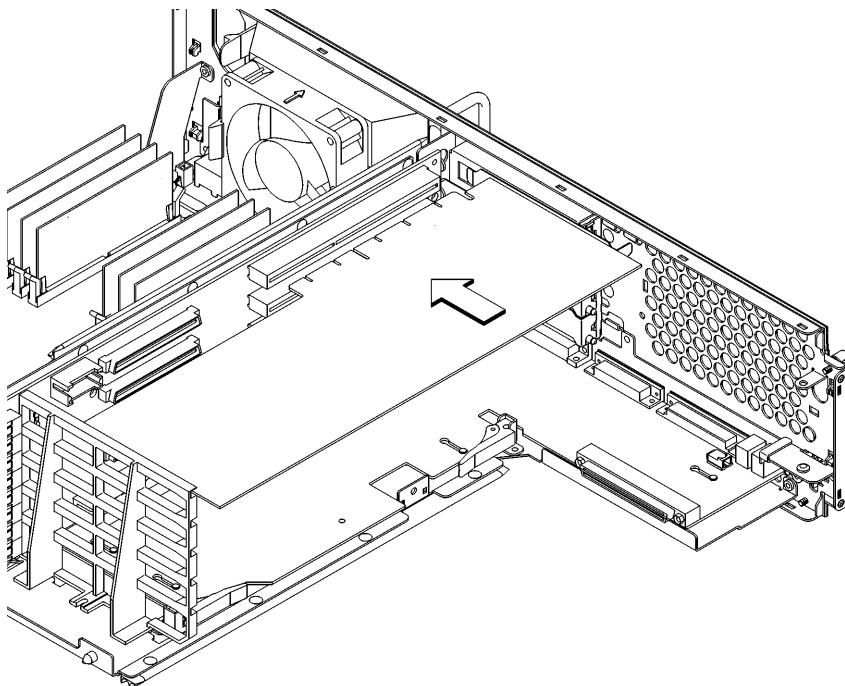


Figure 12

Installing an Option Board

- 7 Press in firmly on both ends of the option board at the same time to make sure that it is firmly seated in the backplane connector.

Installing Option Boards

- 8 Replace the EISA retainer and its screw, as shown in Figure 13.
- 9 Replace the EISA slider, as shown in Figure 13

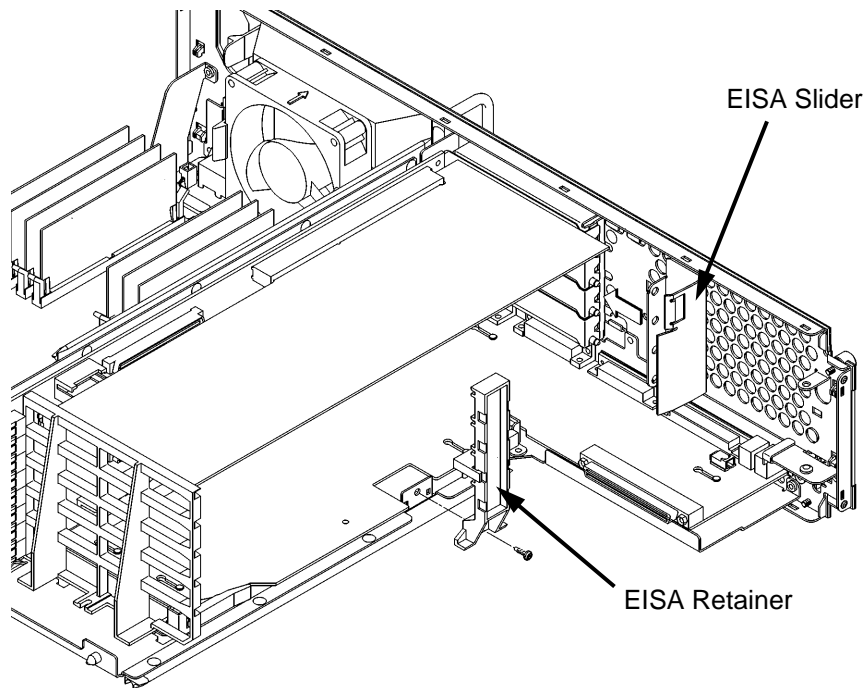


Figure 13 **Installing the EISA Retainer and EISA Slider**

Installing Option Boards

- 10** Rotate the fan back into place and firmly push it into the rear panel firmly until the clip snaps into place, as shown in Figure 14.

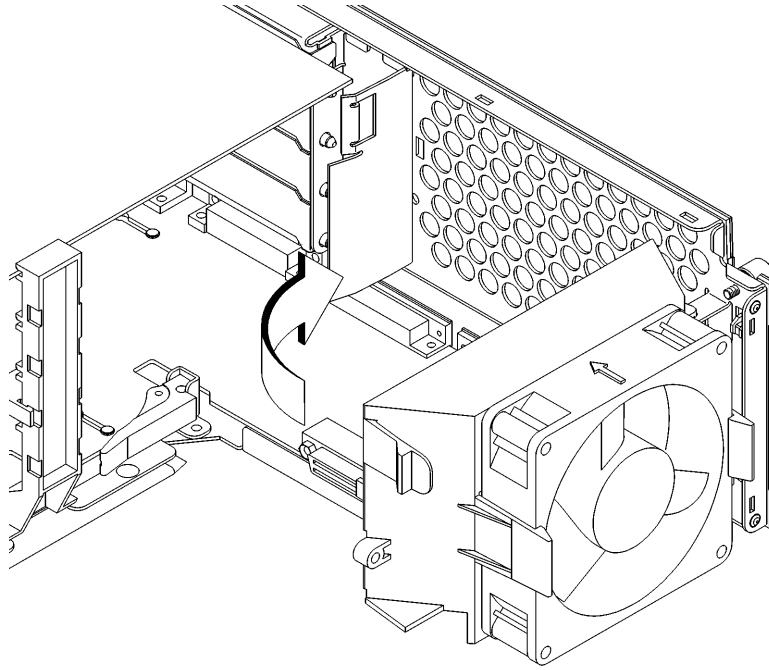


Figure 14

Securing the Fan

Installing the New Main Tray Assembly

Installing the New Main Tray Assembly

Install the new C160/C180 main tray assembly, as described in the following procedure:

- 1 Align the main tray assembly with the chassis and slide it into place, as shown in Figure 15.

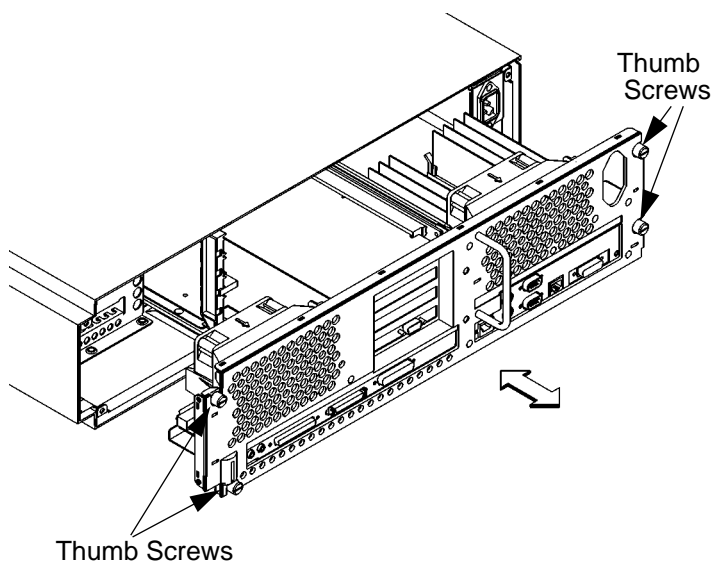


Figure 15

Installing the New Main Tray Assembly

- 2 Slide the main tray in until you feel it make contact with the internal connectors.
- 3 Push firmly and evenly on the main tray assembly to make sure that all connectors are fully seated.
- 4 Start all four thumb screws loosely, then tighten them firmly. See Figure 15.

NOTICE:

To maintain regulatory agency compliance, verify that the main tray is fully seated and all four thumb screws are completely tightened.

Installing the New Main Tray Assembly

- 5 Remove any external SCSI terminators from the rear of the old main tray and install them on the SCSI connectors on the rear of the system.
- 6 Use a small flat blade screwdriver to gently pry the old model number label from the front of the system. Remove the backing from the new C160/180 model number label that came with the upgrade, and press it firmly into place.

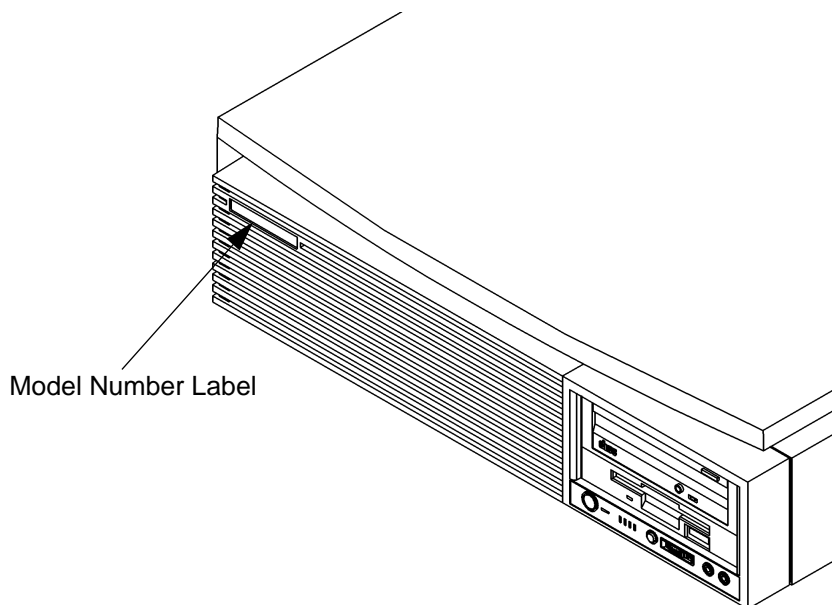


Figure 16

Installing the Model Number Label

Installing the New Main Tray Assembly

- 7 Replace the system unit in the floor stand, as shown in Figure 17.

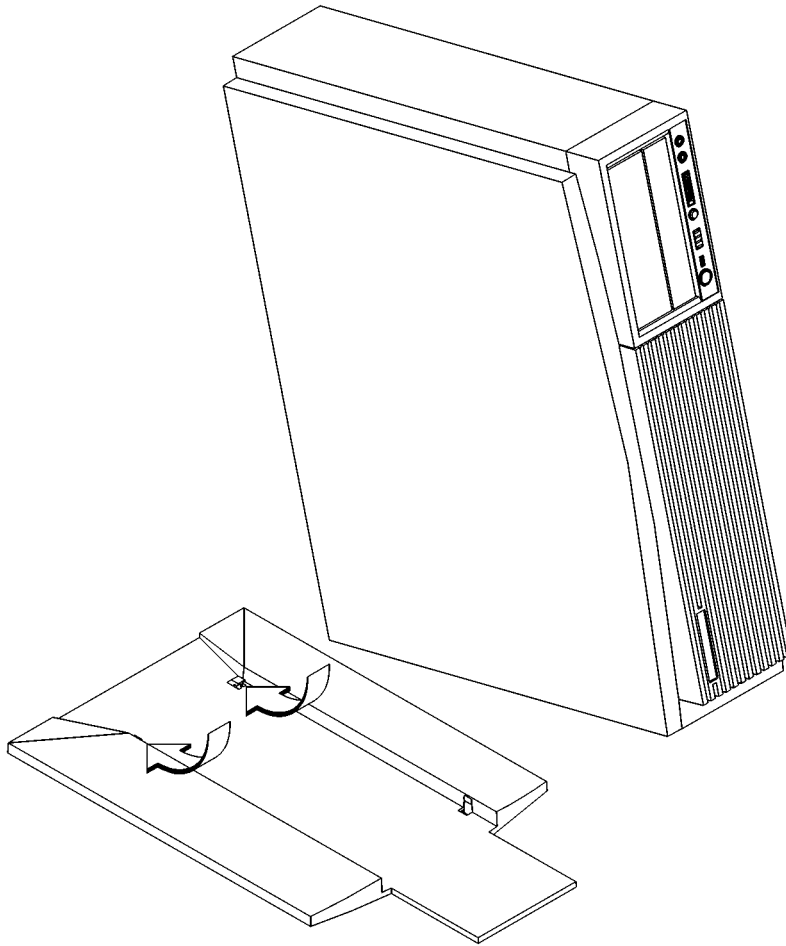


Figure 17

Installing the Floor Stand

Installing the New Main Tray Assembly

- 8 Reconnect the power cables and any other cables that you disconnected when opening the workstation.

If you **do not** have a supported graphics adapter, connect your monitor's 15-pin connector to the 15-pin connector on the EVC adapter cable which came with the upgrade kit. Connect the other end of the EVC adapter cable to the built-in video connector on the rear of the system. Be sure to tighten the thumbscrews on the connectors. Continue with step 9.

If you **do** have a supported graphics adapter, connect the 15-pin monitor connector directly to the connector on the graphics adapter. Skip to step 19.

- 9 Power on the monitor, the system, and any peripherals.
- 10 If your keyboard connects to the PS/2 connector on your system, wait 2 seconds after the Num Lock light flashes near the end of the boot sequence, then press Tab to initiate the automatic monitor selection process.

NOTICE:

It takes approximately one to two minutes after powering on the workstation before the Num Lock light flashes.

If you have a keyboard that connects to the HIL connector on your system, press Tab every three seconds during the boot sequence to initiate the automatic monitor selection process.

Installing the New Main Tray Assembly

- 11** The system cycles through all of the available monitor types one at a time. When you can see a message similar to the following clearly and legible, select that monitor type by pressing Enter.

MONITOR INFORMATION

Path	Slot	Head	Type	Size	Freq	Class
GRAPHICS(0)	0	1	n	nnnnxn timer	MHz	

Press [RETURN] to select this monitor type (type n of n types).

- 12** The system queries you to confirm your selection. Press Y to save this monitor type.

If you press any key other than Y, the following message is displayed:

Monitor type not saved.

If you didn't press Y, the new monitor type is active, but not saved. Because you didn't save the monitor type, the next time you reboot the system the original monitor type will be used.

Next, the following message is displayed:

To select a new Graphics Monitor Type press the <TAB> key now, otherwise EXIT by entering any other key (or will time out in 15 seconds)...

To restart the monitor selection process, press TAB.

If you do not have a (supported) graphics adapter installed in slot 3 or slot 4 continue with step 13. Otherwise skip to step 19.

- 13** After choosing and saving your monitor type, the following message is displayed:

To select a new Graphics Monitor Type press the <TAB> key now, otherwise EXIT by entering any other key (or will time out in 15 seconds)...

Either wait fifteen seconds for the boot process to continue, or press any key **except** TAB.

- 14** If a message to press Esc to stop the boot process is displayed, then press Esc.

This stops the boot process and brings you to the Boot Console Handler prompt.

Installing the New Main Tray Assembly

15 At the prompt, enter the following command to enter the configuration menu:

co

16 Configure the console path for the built-in graphics with the following syntax:

mo graphics(0)

17 Power off the system.

18 Power on the system.

After you install a new CPU board or I/O board and boot the system for the first time, you are prompted for the LAN ID. Enter the LAN ID you recorded in the beginning of this document.

Skip to step 25.

19 Power on the monitor, any peripheral devices, and the system unit.

20 If a message to press Esc to stop the boot process is displayed, then press Esc.

This stops the boot process and brings you to the Boot Console Handler prompt.

21 At the prompt, enter the following command to enter the configuration menu:

co

22 Configure the console path for your graphics adapter with the following syntax:

mo graphics(*n*)

where *graphics(n)* is the graphics path that you recorded earlier.

23 Power off the system.

24 Power on the system.

After you install a new CPU board or I/O board and boot the system for the first time, you are prompted for the LAN ID. Enter the LAN ID you recorded in the beginning of this document.

25 Pack the old main tray in the packaging from the upgrade kit and use the documentation provided to return it to Hewlett-Packard.



Installing the New Main Tray Assembly

